

DEPARTMENT OF TRANSPORTATION
LOCATION AND DESIGN
REQUEST FOR SKEWED BOX DETAILS

TO: Structure and Bridge Division
Design Engineering Section
Attn: Mr. L. G. Hedgepeth, P.E.

Date: _____
Rte.: _____ UPC: _____

FROM: Design Engineer: _____
City/County: _____
Telephone No.: _____ Project No.: _____

SUBJECT: Request for Skewed
Box Details

Ad Date: _____

I request the following Skewed Box Details for the project noted above. Data for the design(s) is as follows:

<u>Culvert Designation</u>	<u>Culvert Type</u>	<u>Fill Range ft.</u>	<u>Span ft.</u>	<u>Height ft.</u>	<u>Inlet Skew degrees</u>	<u>Outlet Skew degrees</u>	<u>Length ft</u>
_____	_____	-	_____	_____	_____ °	_____ °	_____
_____	_____	-	_____	_____	_____ °	_____ °	_____
_____	_____	-	_____	_____	_____ °	_____ °	_____
_____	_____	-	_____	_____	_____ °	_____ °	_____
_____	_____	-	_____	_____	_____ °	_____ °	_____
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_____	_____	-	_____	_____	_____ °	_____ °	_____
_____	_____	-	_____	_____	_____ °	_____ °	_____

Road Plans are available in iPM and Falcon Web Suite for viewing or printing.

Note: Instructions for filling out the above data may be found on page 2 of this form.

TO: Design Engineer _____ Date: _____

FROM: Larry G. Hedgepeth, P.E. Telephone: 804-786-6369

The Skewed Box Details requested are attached.

CC: VDOT Project Manager Design Engineer

INSTRUCTIONS FOR USE OF "SKEWED BOX DETAILS" REQUEST

All of the data on the request form must be provided so that a completed sheet can be produced.

A brief description of the data required is as follows:

1. Culvert Designation – the drainage structure number (e.g., 11-16) or "D" number (e.g., D602) of the particular box. NOTE: Maximum designation length is 5 numbers or characters.
2. Culvert Type – single character code for type of box
O = Oversize
S = Single
D = Double
T = Triple
Q = Quadruple
3. Fill Range ft. – range of allowable fill heights for the box. (e.g. 0-2, 10-20, 40-50)
4. Span ft. – width of box opening.
5. Height ft. – height of box opening
- *6. Inlet Skew – skew angle between the centerline of box and a perpendicular line to the headwall at the inlet end to the nearest 5 degree increment.
- *7. Outlet Skew – skew angle between the centerline of box and a perpendicular line to the headwall at the outlet end to the nearest 5 degree increment.
8. Length ft. – approximate length of culvert or extension, measured along centerline of box.

All requests must include a complete state project number and UPC number. A copy of the road plan sheet and box description should be included if there is any question regarding the above data.

* Note: If the box is an extension of an existing box, show both Inlet and Outlet Skew. Place an E after the skew which applies to the tie-in end. If the box is to be extended on both ends, use two separate lines, one for each end.

Example: Inlet Skew = 15°E, Outlet Skew = 20°
The above represents a box which is being extended on the Outlet End.

CAUTION! IF THE CENTERLINE OF THE EXTENSION IS AT A SUBSTANTIALLY DIFFERENT ANGLE THAN THE CENTERLINE OF THE EXISTING BOX (LARGE ANGLE BREAK ON CENTERLINE AT TIE-IN END), THIS FORM CANNOT BE USED. A SPECIAL DESIGN CONNECTION IS REQUIRED AND SHOULD BE REQUESTED FROM THE STRUCTURE AND BRIDGE DIVISION AFTER A HYDRAULIC REVIEW IS COMPLETE.
